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Mark Fontenot
February 2002 **Journal of Computing Sciences in Colleges**, Volume 17 Issue 3
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2 VLSI architecture for lossless compression of medical images using the discrete ▭
wavelet transform
I. Urriza, J. I. Artigas, J. I. García, L. A. Barragán, D. Navarro
February 1998 **Proceedings of the conference on Design, automation and test in Europe**
Publisher: IEEE Computer Society
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This paper presents a VLSI Architecture to implement the forward and inverse 2-D
Discrete Wavelet Transform (FDWT/IDWT), to compress medical images for storage and
retrieval. Lossless compression is usually required in the medical image field. The word
length required for lossless compression makes too expensive the area cost of the
architectures that appear in the literature. Thus, there is a clear need for designing an
architecture to implement the lossless compression of medical images using ...

Keywords: Medical Image compression, VLSI architectures, DWT

3 Session 7D: Issues in substrate coupling: Highly accurate fast methods for extraction ▭
and sparsification of substrate coupling based on low-rank approximation
Joe Kanapka, Jacob White
November 2001 **Proceedings of the 2001 IEEE/ACM international conference on Computer-aided design**
Publisher: IEEE Press
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More aggressive design practices have created renewed interest in techniques for
analyzing substrate coupling problems. Most previous work has focused primarily on
faster techniques for extracting coupling resistances, but has offered little help for
reducing the resulting resistance matrix, whose number of nonzero entries grows
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▢ **2. Efficient direct 2D architecture for lifted biorthogonal DWT**
Alam, M.; Badawy, W.; Dimitrov, V.; Jullien, G.;
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▢ **3. A low-cost VLSI architecture design for non-separable 2-D discrete wavelet transform**
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